**NOTES:**

1. AT MIDPOINT OF EVAPO-TRANSPARATION PIPE INSTALL A 4"x4"x4" PLASTIC VENT RISER. SET VENT A MINIMUM OF 6" ABOVE FINISH GRADE.
2. WHEN GROUND ELEVATIONS DO NOT PERMIT GRAVITY DRAINAGE OF THE CURTAIN DRAIN, THEN A CURTAIN DRAIN LIFT STATION MUST BE USED.

PIPE SPECIFICATIONS:

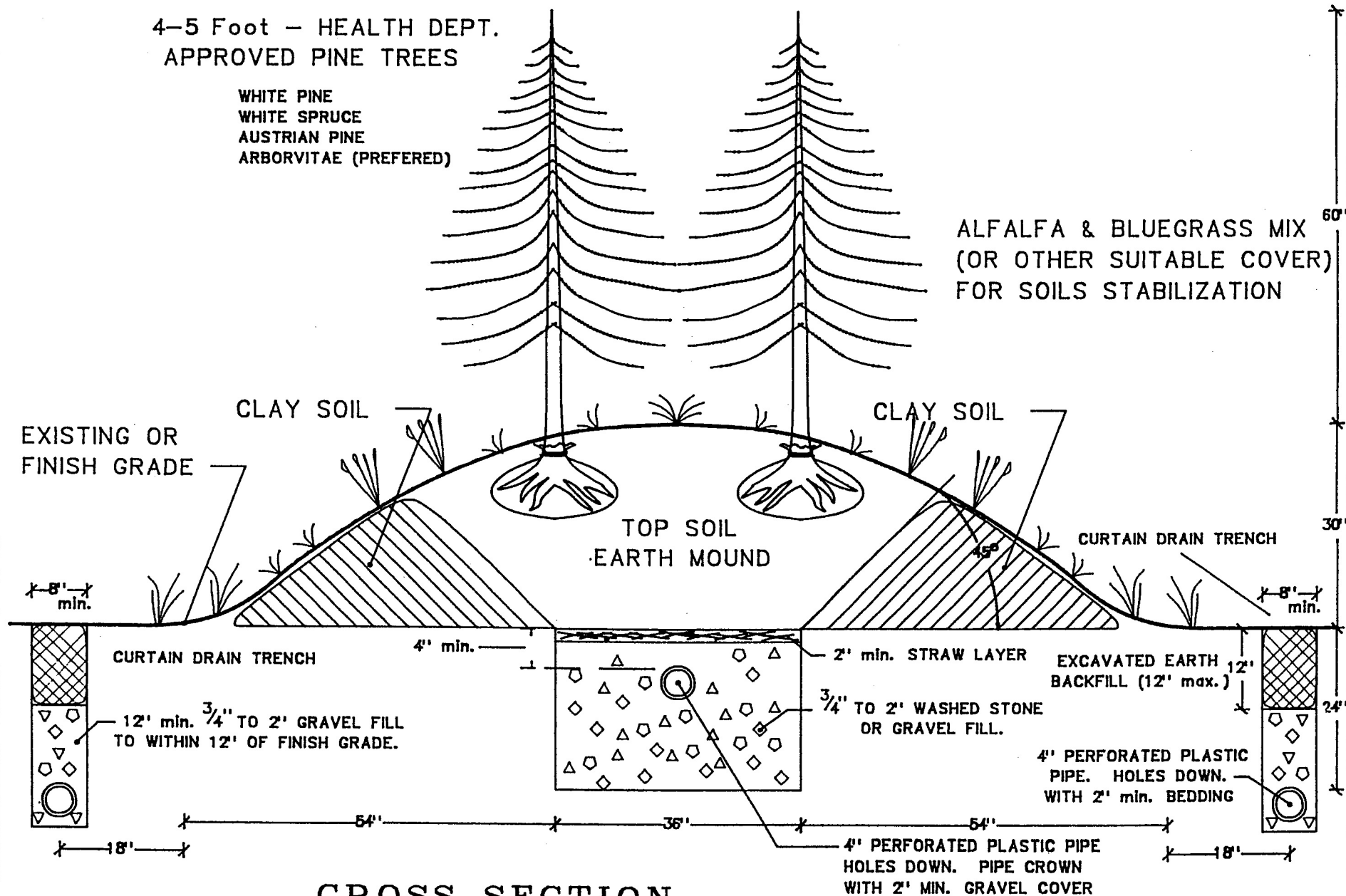
1. 4" RIDGID PERF. PLASTIC PIPE - 2 OR 3 HOLE TYP. BOTTOM DISCHARGE (HOLES DOWN). 1500 POUND TEST.
2. SEWER LINE TO BE 4" SCHEDULE 40 PVC, 4" NO-HUB CAST IRON, OR 4" VITRIFIED CLAY WITH O-RING JOINTS.

SIZE OF HOME BEING SERVED	TRENCH LENGTH	DOSING VOLUME	REQ'D. TREES
UP TO	MIN.	MIN.	MIN.
3 BEDROOMS	100 ft.	60 gals.	16
4 BEDROOMS	135 ft.	80 gals.	22
5 BEDROOMS	170 ft.	100 gals.	28

EVAPO-TRANSPARATION ADSORPTION SYSTEM

WHITE PINE
WHITE SPRUCE
AUSTRIAN PINE
ARBORVITAE (PREFERRED)

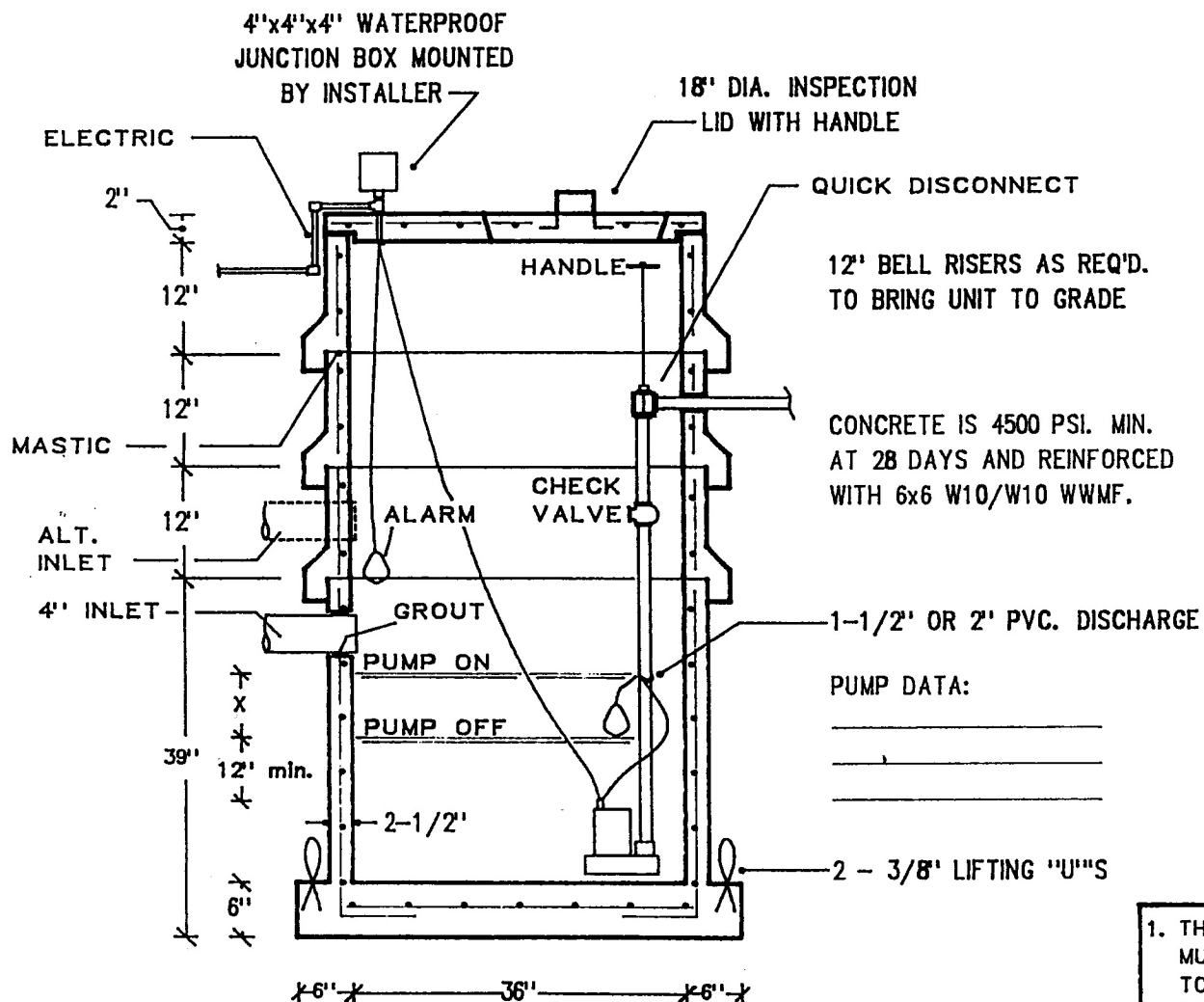
ALFALFA & BLUEGRASS MIX
(OR OTHER SUITABLE COVER)
FOR SOILS STABILIZATION



CROSS SECTION

WITH 2' MIN. GRAVEL COVER

EVAPORATION-TRANSPIRATION ADSORPTION SYSTEM



THE RETENTION CAPACITY OF THIS PIT IS 53.01 GAL. PER VERTICAL FOOT

MAXIMUM BEDROOMS	X (min.) INCHES	DOSING VOLUME
3	13'	60 GAL.
4	18'	80 GAL.
5	23'	100 GAL.

TYPICAL UNIT WEIGHTS

BASE SECTION	= 1887 lbs.
12' RISERS	= 328 lbs.
LID	= 229 lbs.

SYSTEM MUST BE PROVIDED WITH AUDIO AND VISUAL ALARM.

GENERAL SPECIFICATIONS

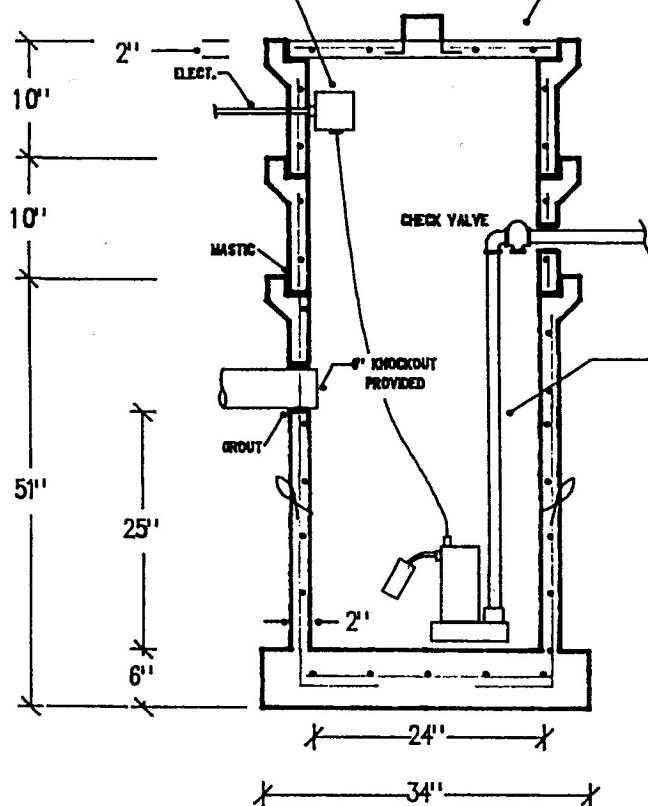
1. THE INLET LINE TO THE LIFT STATION MUST BE SET ABOVE THE INSIDE BOTTOM TO ACCOMMODATE THE REQUIRED DOSING VOLUME FROM THE ABOVE CHART PLUS 12' MINIMUM ABOVE THE TOP OF THE PUMP.
2. SEWER LINE TO BE 4" SCHEDULE 40 PVC, 4" NO-HUB CAST IRON, OR 4" VITRIFIED CLAY PIPE WITH O-RING JOINTS.

36" I.D. TYPICAL SIMPLEX LIFT STATION

(ALTERNATE DIAMETERS MAY BE USED WITH COUNTY BOARD OF HEALTH APPROVAL)

4"x4"x4" WATERPROOF
JUNCTION BOX SUPPLIED & MOUNTED
BY INSTALLER

28" DIA. INSPECTION
LID WITH HANDLE



10' BELL RISERS AS REQ'D.
TO BRING UNIT TO GRADE

CONCRETE IS 4500 PSI. MIN.
AT 28 DAYS AND REINFORCED
WITH 6x6 W10/W10 WWMF.

1-1/2" PVC.

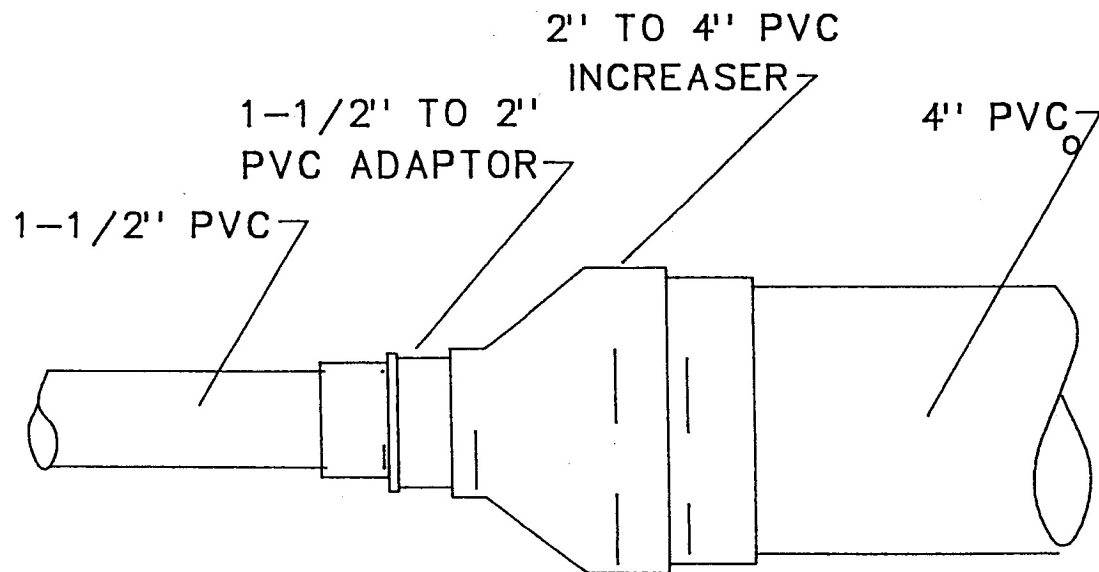
PUMP DATA (TYP.)
1/4 H.P. 115 VOLT - 1-1/2" DISCHARGE
EFFLUENT SEWAGE PUMP RATED AT
33 G.P.M. @ 10' T.D.H. W/ AUTO CONTROL

UNIT WEIGHTS
BASE SECTION = 940 lbs.
10' RISERS = 190 lbs.
LID = 107 lbs.

NOTE: LIFT STATION DIAMETER AS APPROVED BY COUNTY BOARD HEALTH

24" I.D. TYPICAL CURTAIN DRAIN LIFT STATION

NOTE: ALTERNATE DIAMETERS MAY BE USED WITH THE APPROVAL OF THE COUNTY BOARD OF HEALTH



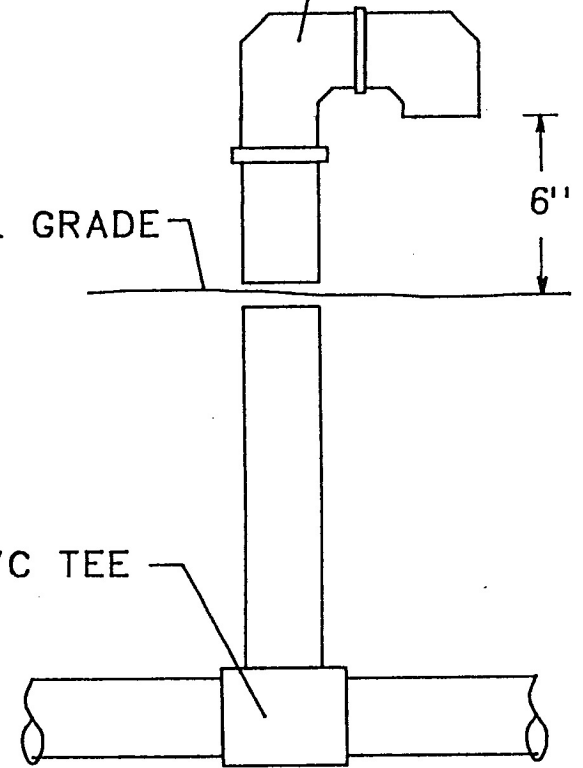
TYPICAL DETAIL FOR INCREASING
FROM 1-1/2" PVC TO 4" PVC
(4" @ 1500 POUND TEST)

4" 90° PVC ELBOWS

FINAL GRADE

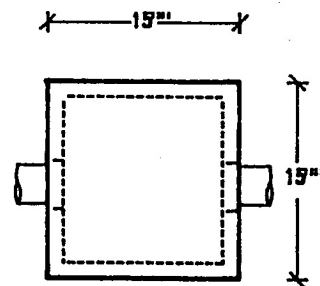
6"

4" PVC TEE

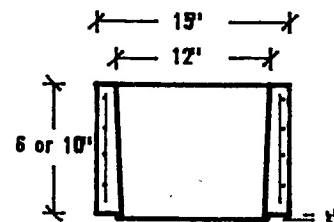


VENTING DETAIL

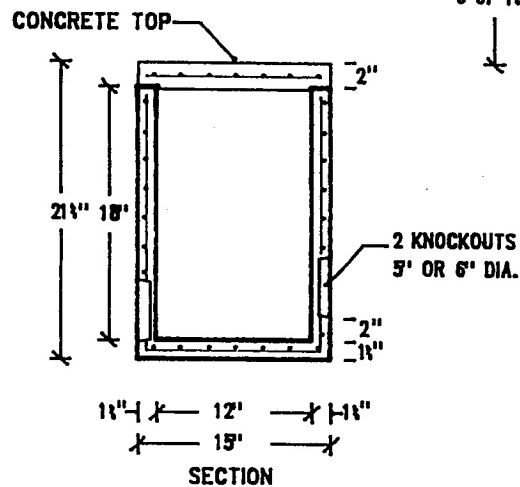
MISCELLANEOUS DETAILS FOR E-T.A.S.



PLAN



RISER



SECTION

NOTES:

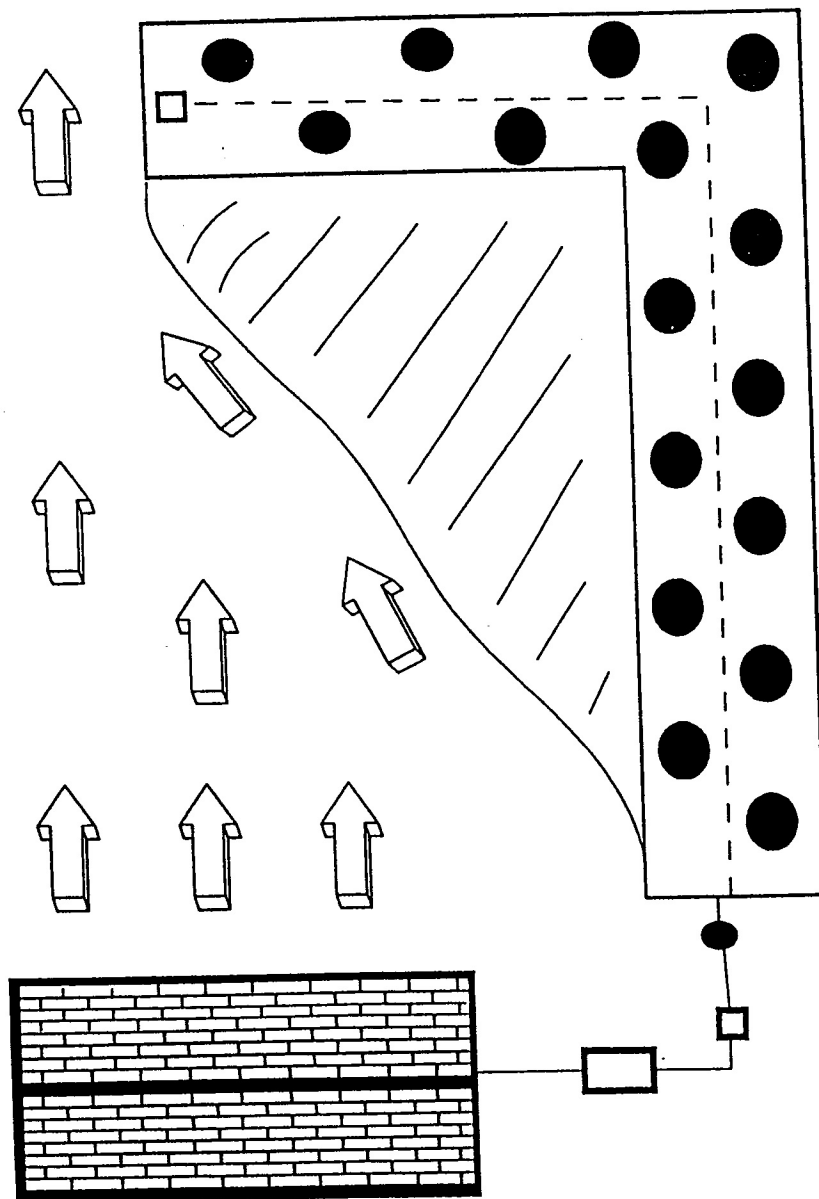
1. CONCRETE IS 4500 psi. MIN @ 28 DAYS PER O.D.O.T. SPEC. 402.03, CLASS 'C'
2. KNOCKOUT LOCATION MAY BE ALTERED TO SUIT INDIVIDUAL REQUIREMENTS.
3. REINFORCING: 6x6 W10/W10 WWF

UNIT WEIGHTS:

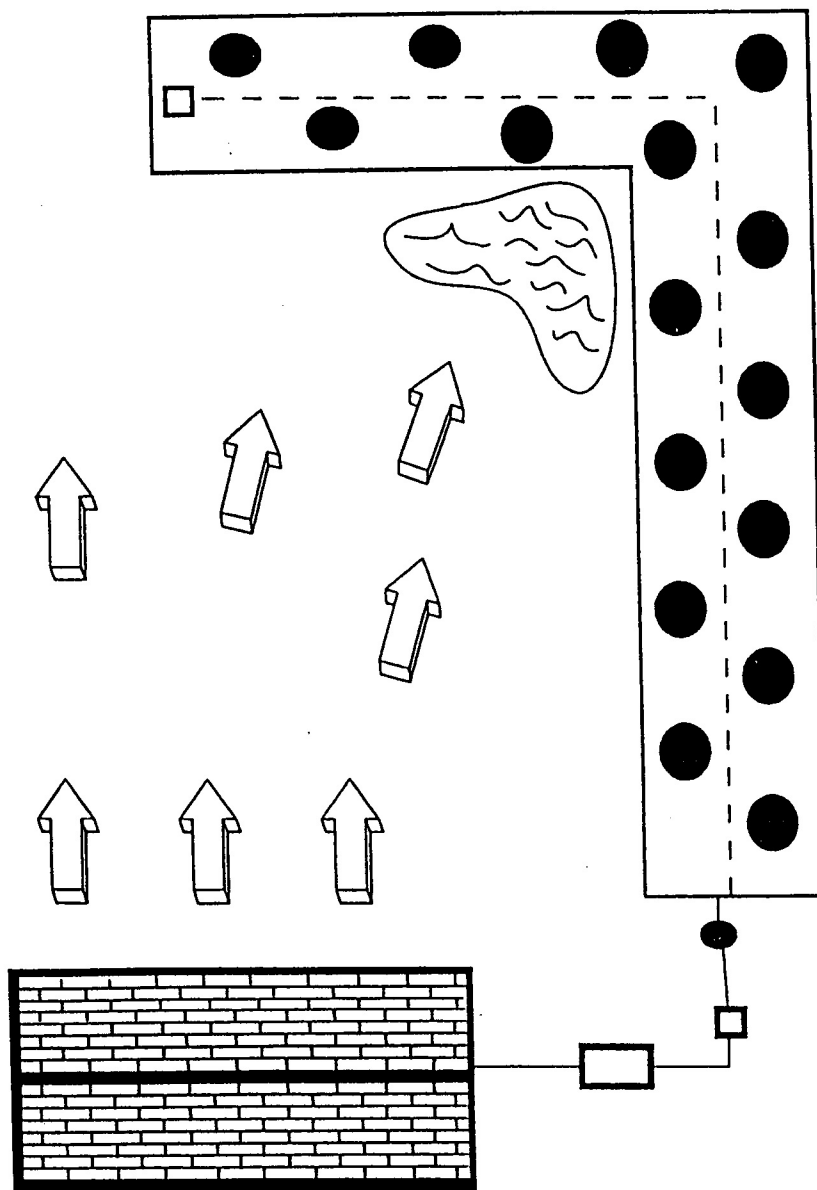
BASE	=	168 lbs.
LD	=	40 lbs.
10' RISER	=	93 lbs.
6' RISER	=	56 lbs.

NOTE: PLASTIC IS AN ACCEPTABLE ALTERNATE. MATCH SIZING.

TYPICAL INSPECTION BOX FOR E-T.A.S.



GRADING AT THE MOUND
CAN HELP TO AVOID
PROBLEMS!



MUCH CAUTION
MUST BE GIVEN
TO FINAL GRADE
AND SLOPE FROM
THE HOUSE

DEPENDING ON DESIGN,
THE MOUND COULD CREATE
A DIKE AND PROHIBIT
PROPER DRAINAGE.
THIS WILL CAUSE THE
SYSTEM TO FAIL.